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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,098	03/20/2007	Mikhail Laksin	S9025.0219	1736	
32172 DICKSTEIN S	7590 03/14/200 SHAPIRO LI P	8	EXAM	EXAMINER	
1177 AVENUE OF THE AMERICAS (6TH AVENUE)			SHAH, MANISH S		
NEW YORK,	NY 10036-2714		ART UNIT	ART UNIT PAPER NUMBER	
			2853		
			MAIL DATE	DELIVERY MODE	
			03/14/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/586,098 LAKSIN ET AL.

Office Action Summary	Examiner	Art Unit	
•	Manish S. Shah	2853	
The MAILING DATE of this communication app			idress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MALLING DI JOHN THE MALLING DI JOHN THE MALLING DI JOHN THE FORM THE MALLING THE MALLING JOHN THE MALLING THE MALLING THE MALLING ANY reply received by the Office later than three months after the mailing agamed patter term displanment. See 30 FORM TATORY	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,
Status			
1) Responsive to communication(s) filed on	<u> -</u> -		
2a) This action is FINAL. 2b) ☐ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application.			
4a) Of the above claim(s) is/are withdray			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			FR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	ı-(d) or (f).	
1. Certified copies of the priority documents	s have been received		
Certified copies of the priority documents     Certified copies of the priority documents		on No	
3.☐ Copies of the certified copies of the prior			Stage
application from the International Bureau	•		9-
* See the attached detailed Office action for a list		d.	
Attachment(s)	A) [] Interview 0:	(DTO 440)	
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		

3) X Information Disclosure Statement(s) (PTO/SE/DE) Paper No(s)/Mail Date 5/17/07.

5) Notice of Informal Patent Application
6) Other:

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## DETAILED ACTION

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Laufer et al. (# US 4264483).

Laufer et al. discloses:

- A printing ink comprising: (i) a solvent-soluble resin (photoreactive resin); (ii) an energy curable monomer, oligomer, or mixture thereof; and (iii) a vehicle (see Abstract; column: 1, line: 40-50; column: 2, line: 1-60).
- The energy curable monomer, oligomer, or mixture thereof, is an
  ethylenically unsaturated monomer, oligomer, or mixture thereof (see Examples;
  column: 2, line: 1-30), wherein the energy curable monomer, oligomer, or mixture
  thereof, is in an amount of about 1% to 50% by weight of the printing ink (see
  Examples; column: 7, line: 1-65).
- The solvent-soluble resin is in a range between about 0.1% to about 40% by weight of the printing ink (column; 7, line; 40-45).

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 The solvent-soluble resin comprises nitrocellulose, acrylate, methacrylate, polyester, polyamide, copolymer of styrene and maleic anhydride, polyurethane and epoxy (column: 3, line: 1-15).

- The vehicle comprises water, methanol, ethanol, n-propanol, isopropanol, n-butanol, sec-butanol, tert-butanol, iso-butanol, n-pentanol, or ethyl acetate (column: 2, line: 45-65).
- The ink further comprising a photoinitiator, wherein the photoinitiator is
  in an amount between about 0.1% and about 20% (5 to 15%) by weight of the
  printing ink (column: 7, line: 45-50).
- The photoinitiator is selected from the group consisting of benzophenone (column: 3, line: 15-45).
- A method of printing comprising: (i) printing a substrate with the printing ink (ii) drying the printed ink; and (iii) exposing the printed ink to an actinic radiation, wherein actinic radiation is UV light or electron beam (column: 1, line: 10-40; column: 8, line: 60-68).
- The steps (ii) and (iii) are performed sequentially or steps (ii) and (iii) are performed simultaneously (column: 1, line: 1-40).

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## Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- (1) Nakajima (# US 2004/0069182) discloses UV curable ink comprising pigment, a polymerizable compound and a photopolymerization initiator (see Abstract).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Manish S. Shah/ Primary Examiner Art Unit 2853

/MSS/ 02/28/2008